

4.2.F. 0604000206 (Rock Creek).

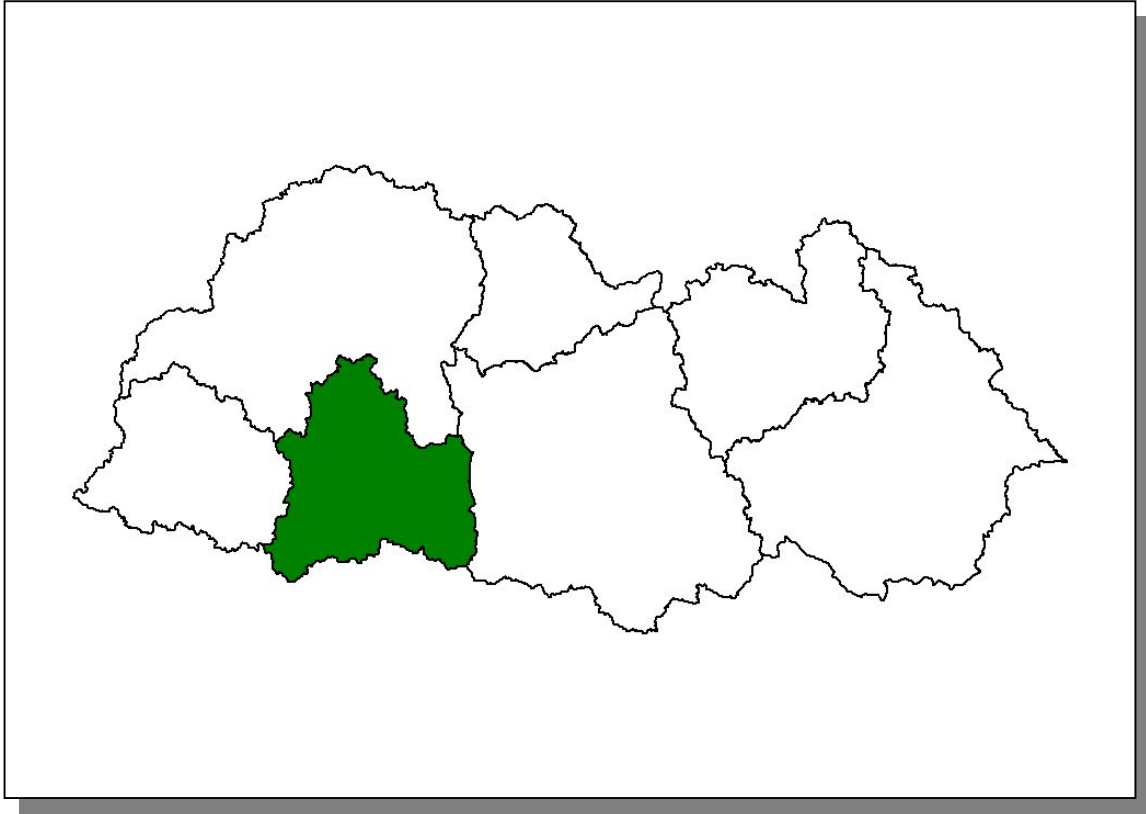


Figure 4-62. Location of Subwatershed 0604000206. All Upper Duck HUC-10 subwatershed boundaries are shown for reference.

4.2.F.i. General Description.

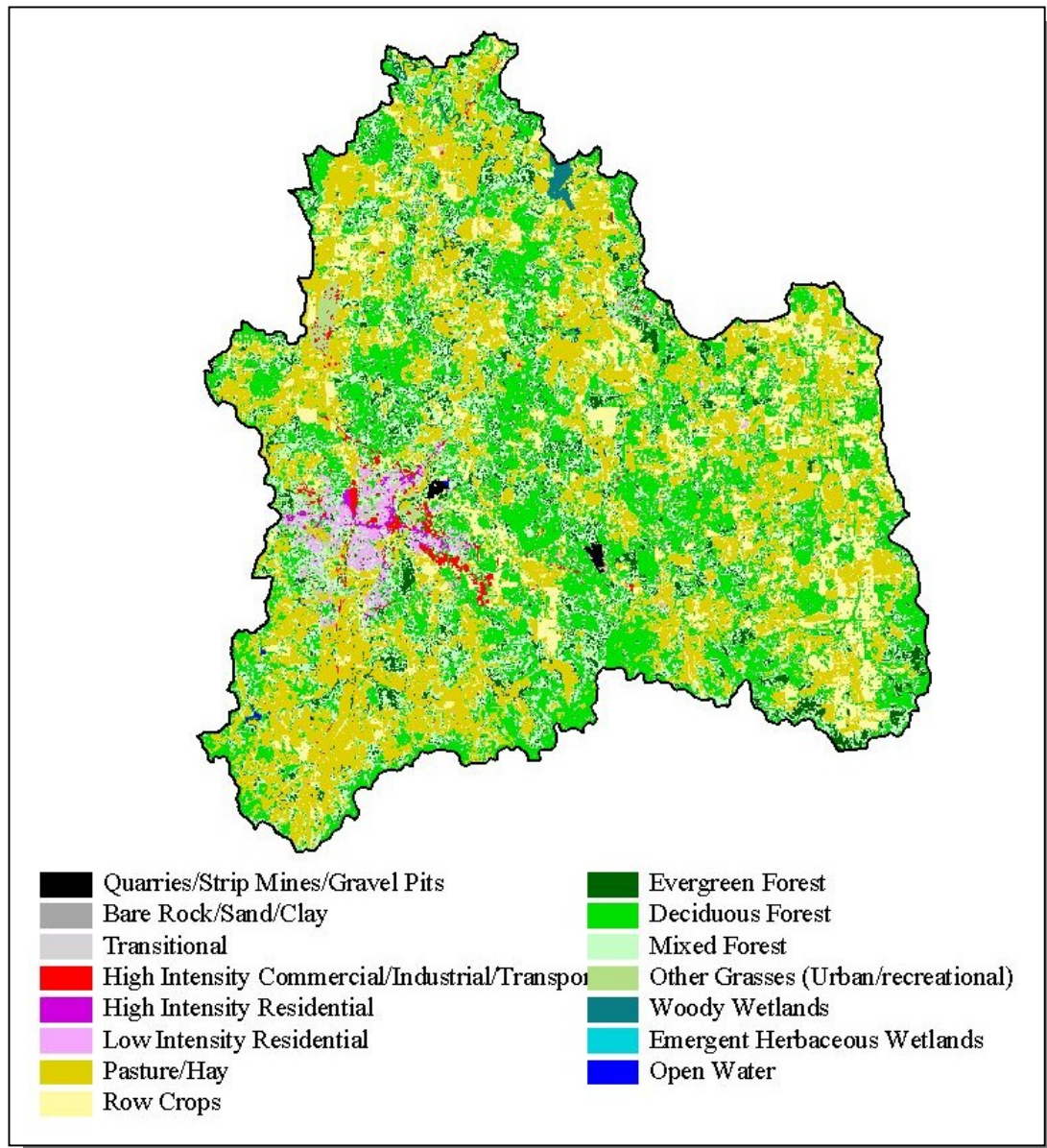


Figure 4-63. Illustration of Land Use Distribution in Subwatershed 0604000206.

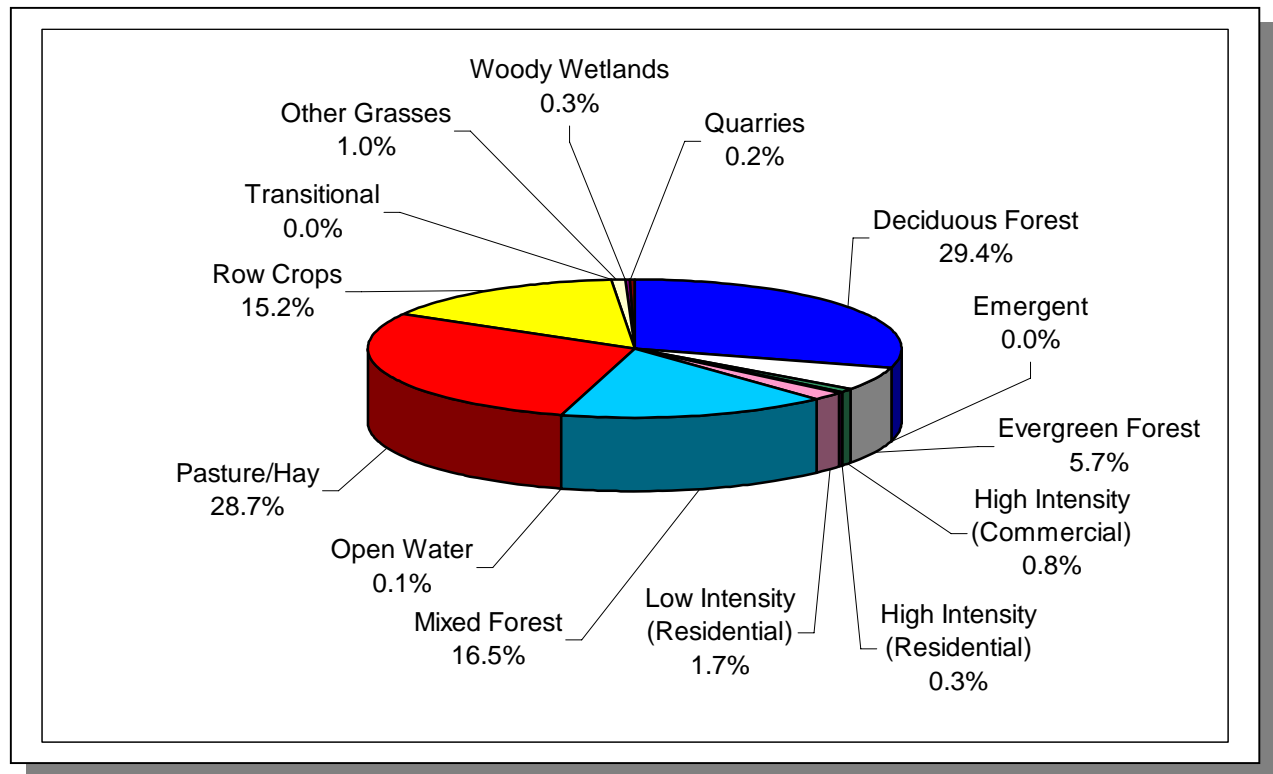


Figure 4-64. Land Use Distribution in Subwatershed 0604000206. More information is provided in Appendix IV.

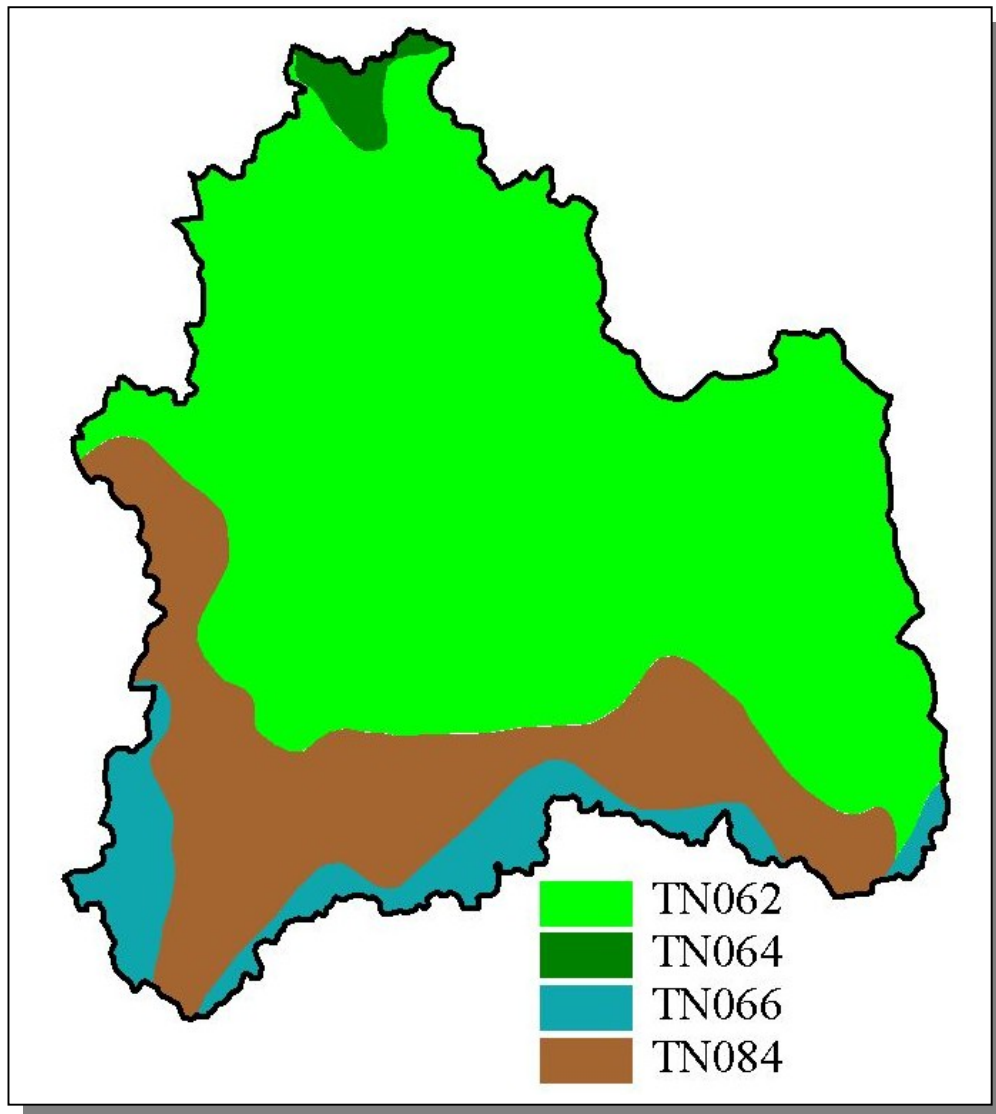


Figure 4-65. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0604000206.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hr)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN062	0.00	C	0.98	4.40	Clayey Loam	0.26
TN064	7.00	C	1.19	5.82	Silty Loam	0.37
TN066	0.00	B	2.62	4.75	Loam	0.28
TN084	0.00	C	1.80	4.99	Silty Loam	0.28

Table 4-37. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0604000206. More information is provided in Appendix IV.

County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-1997)
	1990	1997	2000		1990	1997	2000	
Bedford	30,411	34,203	37,586	2.44	741	833	916	23.6
Marshall	21,539	25,687	26,767	29.89	6,439	7,679	8,002	24.3
Totals	51,950	59,890	64,353		7,180	8,512	8,918	24.2

Table 4-38. Population Estimates in Subwatershed 0604000206.

Populated Place	County	Population	NUMBER OF HOUSING UNITS			
			Total	Public Sewer	Septic Tank	Other
Cornersville	Marshall	677	312	54	255	3
Lewisburg	Marshall	9,879	4,275	3,990	285	0
Totals		10,556	4,587	4,044	540	3

Table 4-39. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 0604000206.

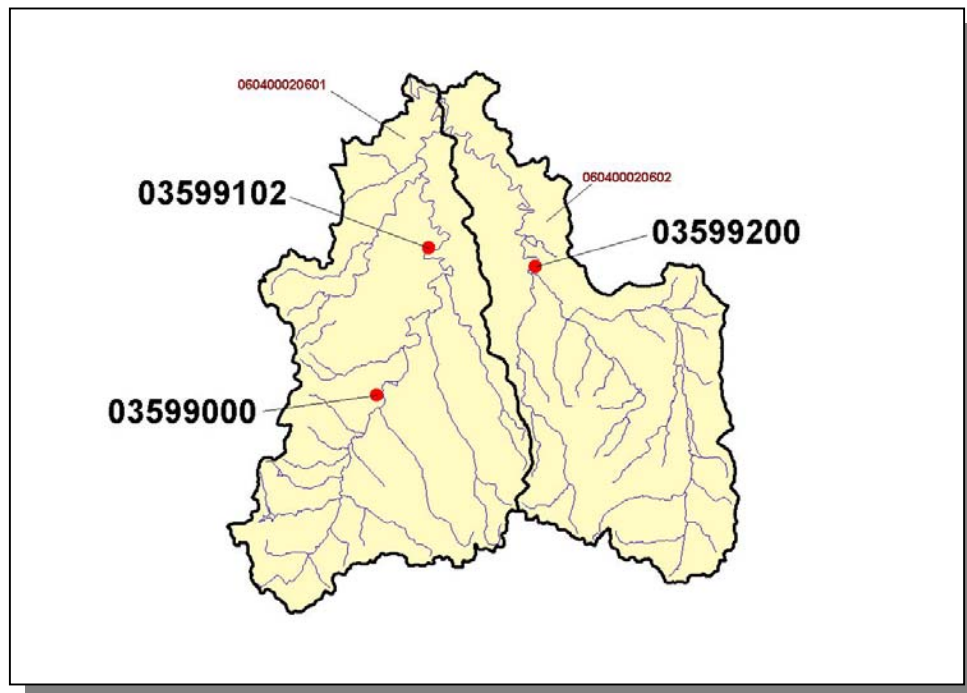


Figure 4-66. Location of Historical Streamflow Data Collection Sites in Subwatershed 0604000206. Subwatershed 060400020601 and 060400020602 boundaries are shown for reference. More information is provided in Appendix IV.

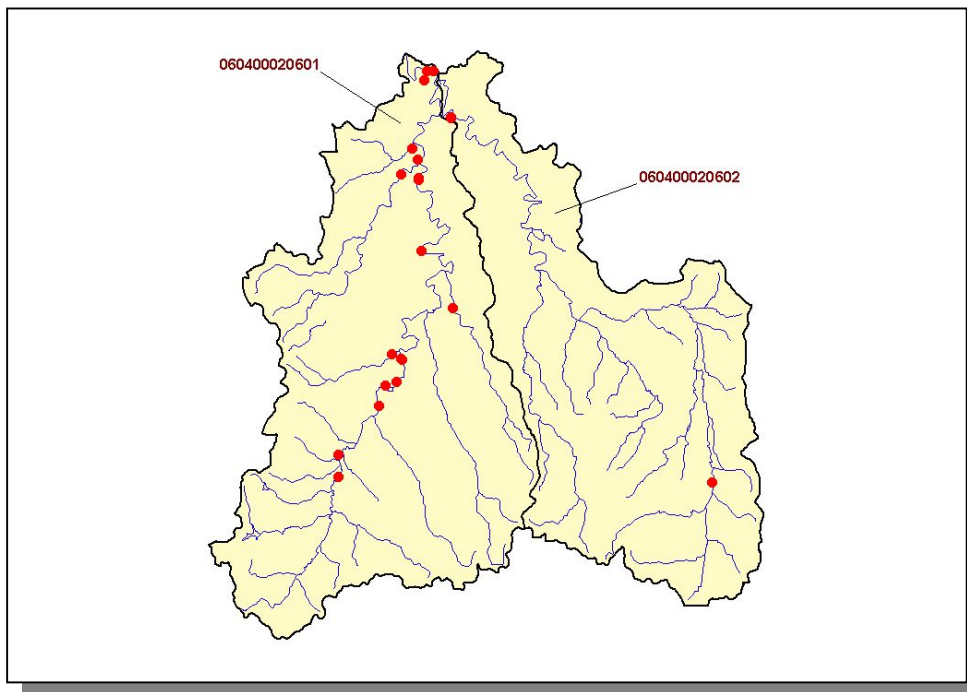


Figure 4-67. Location of STORET Monitoring Sites in Subwatershed 0604000206. Subwatershed 060400020601 and 060400020602 boundaries are shown for reference. More information, including site names and locations, is provided in Appendix IV.

4.2.F.ii. Point Source Contributions.

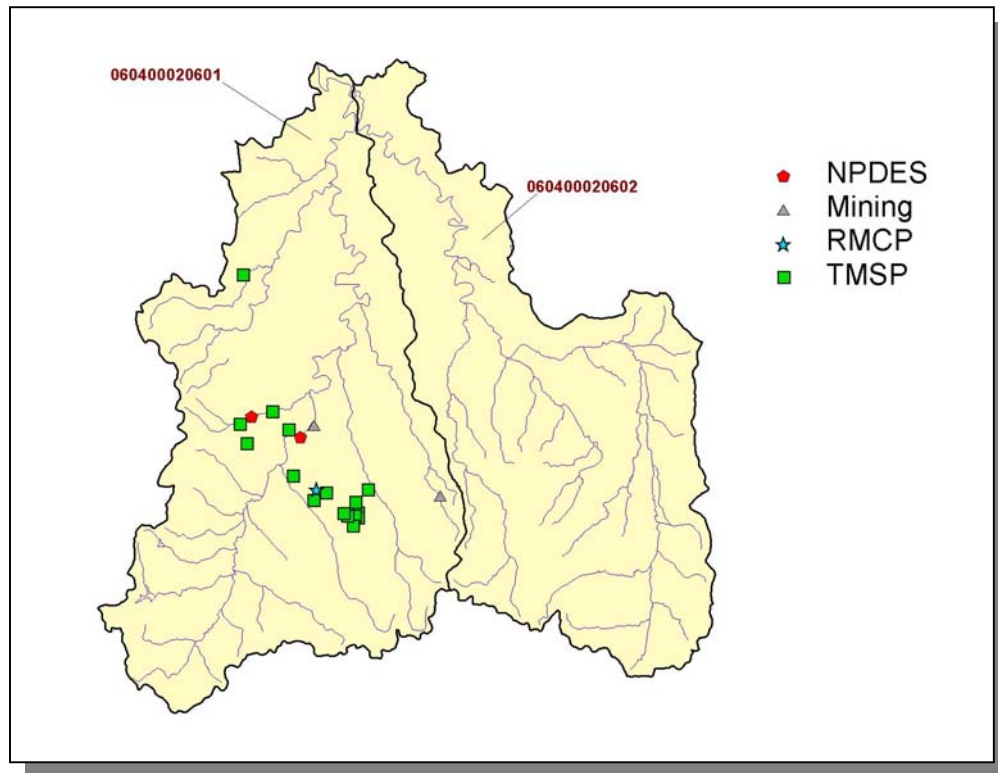


Figure 4-68. Location of Active Point Source Facilities in Subwatershed 0604000206. Subwatershed 060400020601 and 060400020602 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

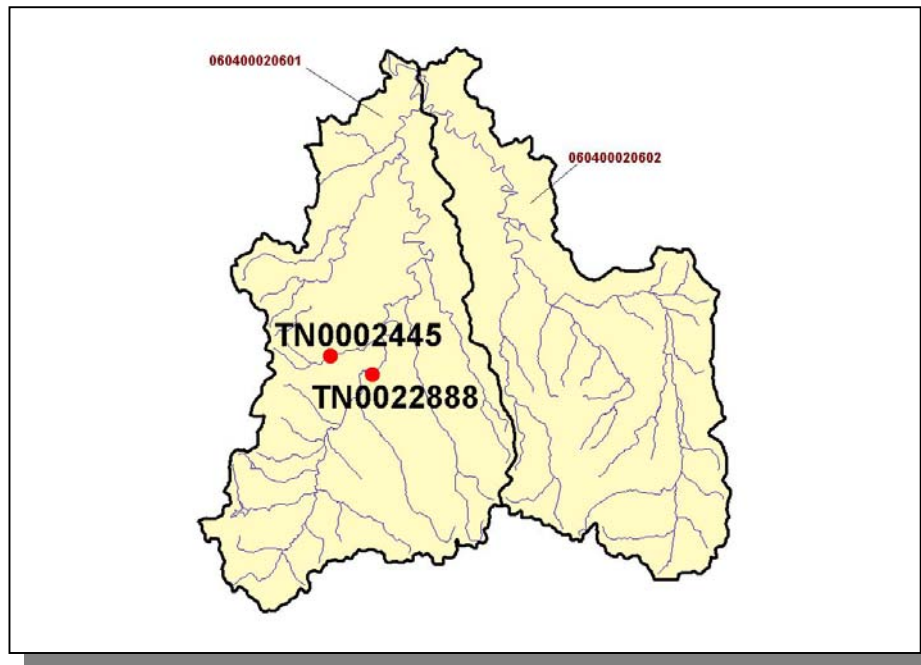


Figure 4-69. Location of NPDES Facilities in Subwatershed 0604000206. Subwatershed 060400020601 and 060400020602 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

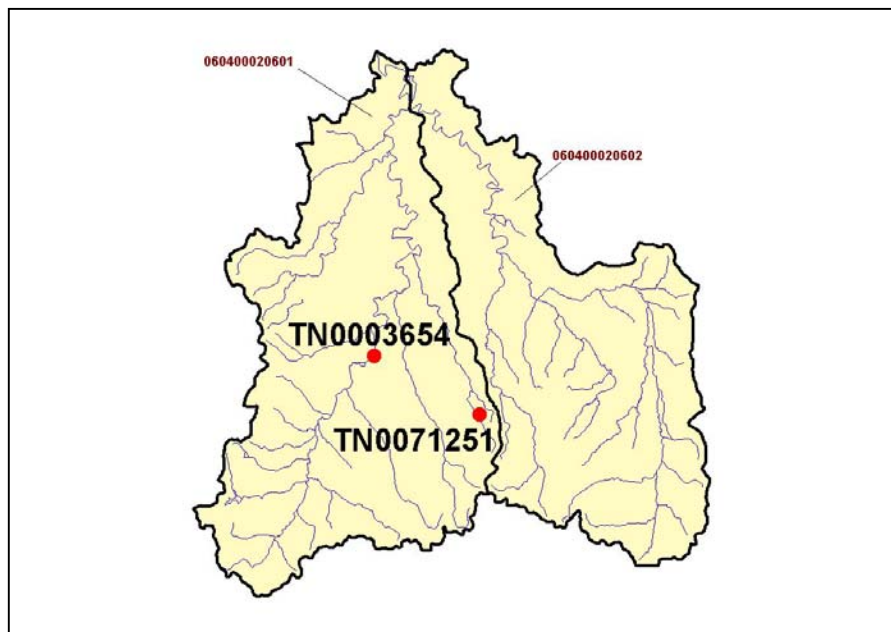


Figure 4-70. Location of Active Mining Facilities in Subwatershed 0604000206. Subwatershed 060400020601 and 060400020602 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

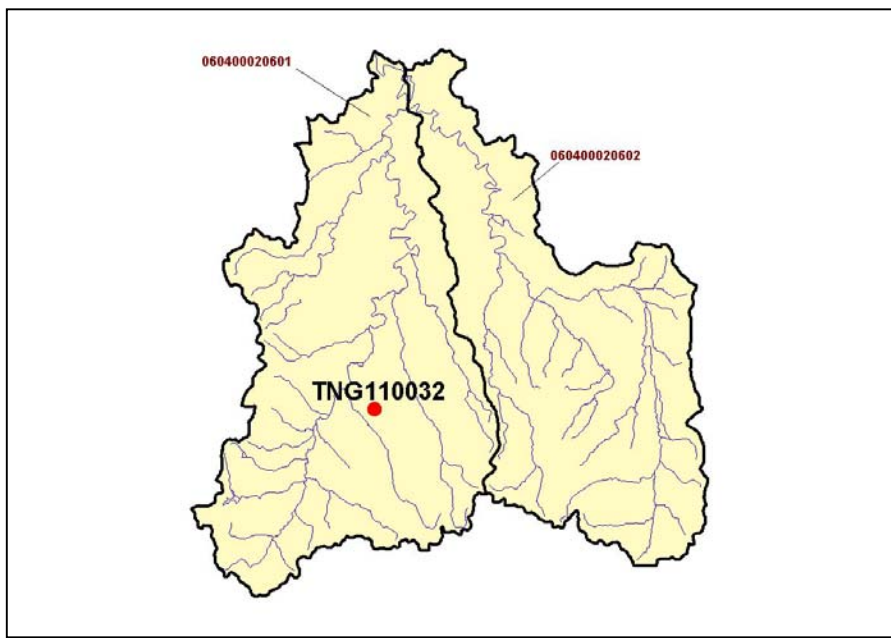


Figure 4-71. Location of Ready Mix Concrete Plants in Subwatershed 0604000206. Subwatershed 060400020601 and 060400020602 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

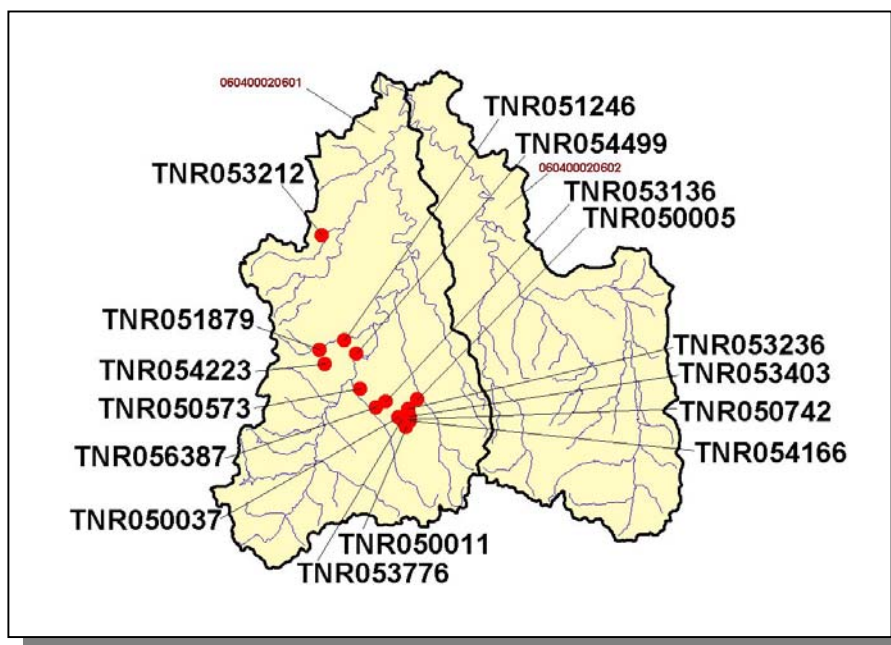


Figure 4-72. Location of TMSF Facilities in Subwatershed 0604000206. Subwatershed 060400020601 and 060400020602 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

4.2.F.ii.a. Dischargers to Water Bodies Listed on the 2002 303(d) List

There are two NPDES facilities discharging to water bodies listed on the 2002 303(d) list in Subwatershed 0604000206:

- TN0022888 (Lewisburg STP) discharges to Big Rock Creek @ RM 16.8
- TN0002445 (International Comfort Products Corporation) discharges to Snell Branch @ RM 1.6 to Big Rock Creek @ RM 15.5

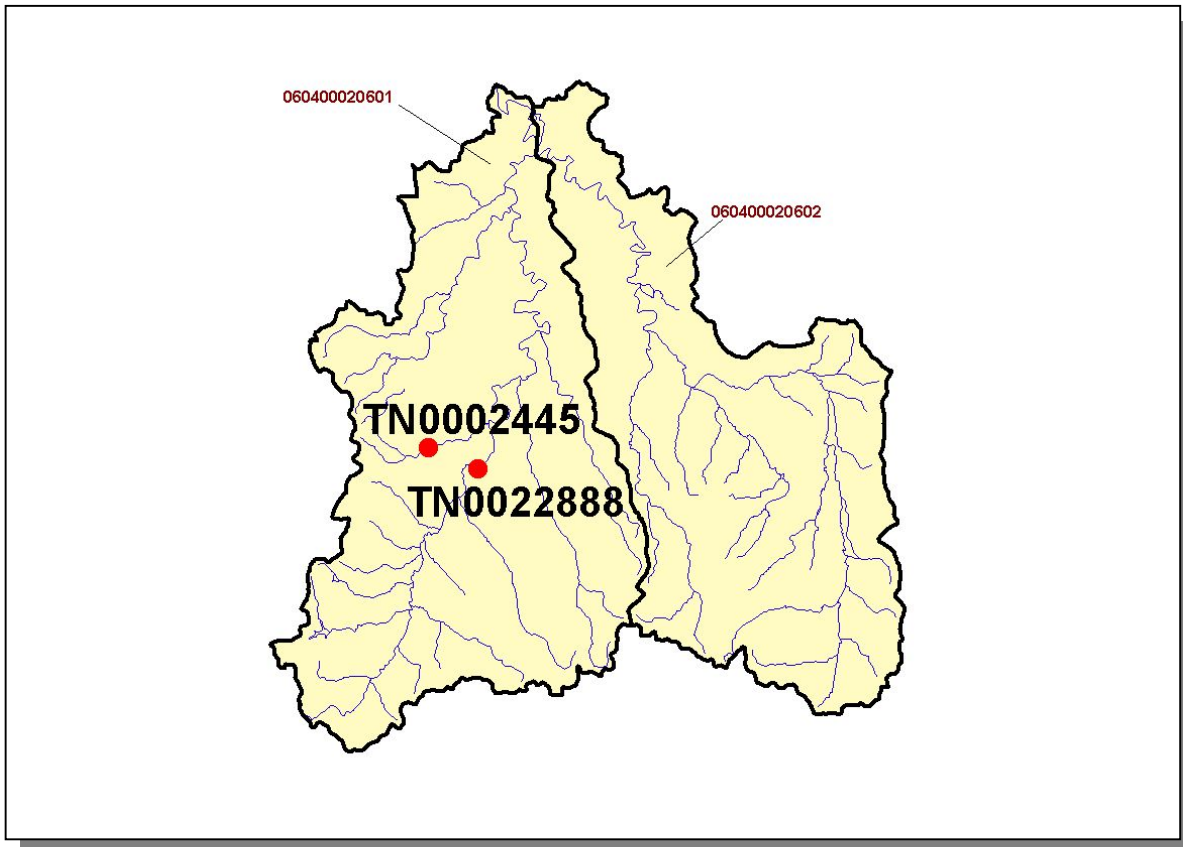


Figure 4-73. Location of NPDES Dischargers to Water Bodies Listed on the 2002 303(d) List in Subwatershed 0604000206. Subwatershed 060400020601 and 060400020602 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

PERMIT #	1Q10	3Q10	7Q10	3Q20	QDESIGN
TN0022888	0	0	0	0	3.024
TN0002445			0		

Table 4-40. Receiving Stream Flow Information for NPDES Dischargers to Waterbodies Listed on the 2002 303(d) List in Subwatershed 0604000206. Data are in million gallons per day (MGD). Data were obtained from the USGS publication Flow Duration and Low Flows of Tennessee Streams Through 1992 or from permit files.

PERMIT #	WET	CBOD ₅	FECAL COLIFORM	E. COLI	NH ₃	TRC	TSS	SETTLEABLE SOLIDS	DO	pH
TN0022888	X	X	X	X	X	X	X	X	X	X
TN0002445	X						X			X

Table 4-41. Parameters Monitored for Daily Maximum Limits for NPDES Dischargers to Waterbodies Listed on the 2002 303(d) List in Subwatershed 0604000206. WET, Whole Effluent Toxicity; CBOD₅, Carbonaceous Biochemical Oxygen Demand (5-Day); TRC, Total Residual Chlorine; TSS, Total Suspended Solids.

PERMIT #	TRICHLOROETHYLENE	1,1-DICHLOROETHYLENE
TN0002445	X	X

Table 4-42. Organic Parameters Monitored for Daily Maximum Limits for NPDES Dischargers to Waterbodies Listed on the 2002 303(d) List in Subwatershed 0604000206.

4.2.F.iii. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Milk Cow	Cattle	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
5,739	1,369	12,910	17	546,037	1,161	70

Table 4-43. Summary of Livestock Count Estimates in Subwatershed 0604000206.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Bedford	74.6	74.6	0.5	1.3

Table 4-44. Forest Acreage and Average Annual Removal Rates (1987-1994) in Subwatershed 0604000206.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.75
Grass (Hayland)	0.43
Legumes (Hayland)	0.59
Legumes, Grass (Hayland)	2.24
Grass, Forbs, Legumes (Mixed Pasture)	0.62
Forest Land (Not Grazed)	0.00
Forest Land (Grazed)	0.00
Corn (Row Crops)	8.91
Soybeans (Row Crops)	5.66
Wheat (Close-Grown Cropland)	7.54
Summer Fallow (Other Cropland)	8.36
Other Cropland not Planted	0.23
Conservation Reserve Program Lands	0.18
Non-Agricultural Land Use	0.00
Other Land in Farms	0.05
Farmsteads and Ranch Headquarters	0.04

Table 4-45. Annual Estimated Total Soil Loss in Subwatershed 0604000206.